

[002]        This application is a national stage completion of PCT/EP2003/006562    ♦♦  
              filed June 21, 2003 which claims priority from German Application Serial    ♦♦  
              No. 102 29 320.1 filed June 29, 2002.     ♦♦

[003]        FIELD OF THE INVENTION     ♦♦

[004]        The invention relates to a shifting assembly ~~pursuant to the preamble to~~    ♦♦  
              ~~claim 1.~~     ♦♦

[005]        BACKGROUND OF THE INVENTION     ♦♦

[009]        ~~—— The object is attained with a shifting assembly having the characterizing~~  
              ~~features of claim 1. Embodiments are the object of the dependent claims.~~

[010]        SUMMARY OF THE INVENTION     ♦♦

[015]        BRIEF DESCRIPTION OF THE DRAWINGS     ♦♦

[016]        The invention will now be described in ~~greater detail, by way of example,~~    ♦♦  
              with reference to the accompanying drawings. These show in which:           ♦♦

[019]        DETAILED DESCRIPTION OF THE INVENTION     ♦♦

[020]        Fig. 1 shows a selector or shifting shaft 2, on which two roller arms 4 are  
              positioned, spaced somewhat from one another, in a device such that they are  
              arranged non-rotatably and axially non-displaceably. The two roller arms 4  
              together hold a rod 6, which is firmly affixed to the two roller arms 4. A cylinder  
              8 is mounted on the rod 6 such that it can be rotated and displaced axially.  
              The cylinder 8 is provided around its circumference with a groove 10. A lever 16  
              that is capable of swiveling around an axis 14 is mounted in a transmission  
              housing 12. The lever 16 is supported by a spring element 18 against the  
              transmission housing 12. In a central area, the lever 16 is equipped with a    ♦♦  
              contoured edge 20 that is designed to correspond to the desired selection  
              pattern. A deep notch 22 of the contoured edge 20 corresponds to the neutral  
              position of a shifting lever (not shown here), which is connected to the selector

or shifting shaft 2. The contoured edge 20 of the lever 16 engages in the groove 10 of the cylinder 8, causing the cylinder 8 to become fixed in its axial position on the rod 6. When the selector and shifting shaft 2 is turned, the cylinder 8 rolls along the contoured edge 20 of the lever 16, while the cylinder 8 rotates about the rod 6. Depending upon the design of the contoured edge 20, the rotation places more or less stress on the spring element 18, i.e. the driver of the vehicle senses during the rotation of the selector or shifting shaft 2, via the shifting lever 16, a greater or lesser amount of counterforce, and can develop a feeling for which shift gate he has placed the shifting lever 16 in with his selection. Furthermore, if the selector or shifting shaft 2 is displaced axially, the rod 6 is displaced inside the cylinder 8 and the cylinder 8 is guided radially and axially along the contoured edge 20 of the lever 16, without generating a significant amount of friction.

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2	selector or shifting shaft
4	roller arm
6	rod
8	cylinder
10	groove
12	transmission housing
14	axis
16	contoured element <u>or lever</u>
18	spring element
20	contoured edge
22	notch
24	toothed gear
26	toothed gear
28	auxiliary shaft